



# Forum Installation Guide

## SiteScape Product Documentation

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# Preface

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This document provides information about installing and upgrading SiteScape Enterprise Forum products, configuring your web server to enable Forum use, and installing and configuring the database. SiteScape Forum is referred to as SiteScape Forum or Forum throughout this document. This document is written for system and Forum administrators who install and maintain SiteScape Forum, configure web servers, and configure and maintain databases.

Check the SiteScape Help web site (<http://help.sitescape.com>) for documents, Help files, white papers, and more.

This manual provides the following chapters:

Chapter	Description
Chapter 1: Preparing to Install SiteScape Forum	Instructions for configuring your database (required if you are not using the built-in database)
Chapter 2: Installing SiteScape Forum	Instructions for installing Forum on Windows and UNIX platforms
Chapter 3: Upgrading SiteScape Forum	Summary of upgrade procedures and steps for upgrading on Windows and UNIX
Chapter 4: Configuring Web Servers	Instructions for configuring your IIS, Sun ONE, or Apache web server (required after installing Forum)
Chapter 5: Configuring SiteScape Forum ZX	Instructions on running the configuration script that bridges SiteScape Forum ZX and the SiteScape Zon Server.
Chapter 6: Accessing Forum and Getting Started	Instructions for accessing Forum from your web browser and finding supporting information.
Chapter 7: Performance Optimization	Tips for improving Forum performance

Appendixes at the end of the manual provide details about browser compatibility, license key management, and running multiple installations.

SiteScape is dedicated to using W3C technologies and standards (examples include DOM and accessibility coding standards), and intends to support updates to Internet Explorer, Netscape, and FireFox. If one of these browsers radically rewrites their application or otherwise incorporates new, non-standard programming protocols, SiteScape will make a judgment as to the extent to which it will support those new features.

## Chapter 1: Preparing For Installation

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You can install SiteScape Forum on several types of operating systems, using any one of several types of databases, web servers, and web browsers.

### ***SiteScape Forum System and Software Requirements***

Operating System	<ul style="list-style-type: none"><li>• Red Hat Linux Version 8.0, 9.0, or Enterprise*</li><li>• Sun Solaris 8.0 or 9.0, running on a Sun SPARC® computer *</li><li>• Windows 2000 Server Family</li><li>• Windows 2003 Server Family</li><li>• Windows XP Professional with Service Pack 1</li></ul> <p>*with X-Windows installed (recommended)</p>
Forum System Requirements	<ul style="list-style-type: none"><li>• 512 MB RAM minimum. For optimal performance, SiteScape recommends at least 1 GB. Larger installations may require more memory.</li><li>• A CPU speed of 1 GHz is functional for small groups. SiteScape recommends faster processors for larger groups.</li><li>• 1 GB disk space minimum.</li><li>• Upgrades from versions prior to 7.0 require a larger amount of disk space. See <a href="#">page 15</a> for more information.</li><li>• If you choose Oracle or Microsoft SQL server, SiteScape recommends that the database server be located on a different system for optimum performance.</li><li>• CD-ROM drive.</li><li>• SiteScape Zon, which must be installed on a separate Linux server (Forum ZX installations only)</li></ul>
Packages and Features	For Linux or Solaris systems, the HTML Viewer feature requires the X Windows server in order to render PowerPoint and other vector-graphics file formats properly. To provide an X Windows server, you must have a package such as Motif or Lesstif installed. For additional information, refer to the SiteScape Forum 7.3 Release Notes.
HTTP (World Wide Web) Server	<ul style="list-style-type: none"><li>• Sun ONE 6.0 and 6.1 (formerly iPlanet Enterprise Server) (Not supported on Linux.)</li><li>• Apache Version 1.3.X and 2.0.X</li><li>• Microsoft Internet Information Server Versions 5.0 and 6.0</li></ul>

SQL Databases	<ul style="list-style-type: none"> <li>• FrontBase (installed and configured automatically during Forum installation)</li> <li>• External FrontBase Database Server (purchased separately and configured before Forum installation)</li> <li>• Microsoft SQL Server Database 7 or 2000 (purchased separately and configured before Forum installation); Windows platforms only</li> <li>• Oracle 8i and 9i (purchased separately and configured before Forum installation)</li> </ul>
Web Browser (installed on client system)	<ul style="list-style-type: none"> <li>• SiteScape tests on a number of browsers, including Internet Explorer, Mozilla, and Netscape. For details about browsers and browser versions that support Forum 7.3 features, see the Appendix A..</li> <li>• Java Plug-in 1.4.2_06 (included in the kit and installed automatically). To run the various Java-based applets such as the editing applet, the Java Plug-in must be installed on the client machine.</li> </ul>

## Configure Your Database

Version 7.3 offers you a choice of several databases:

- FrontBase (built-in)

Forum includes a built-in SQL92-compliant database from FrontBase, Inc. Forum handles the basic installation and setup of the database during the installation process, so if you choose this database, you can proceed to [Chapter 2](#).

- Microsoft SQL 7
- Microsoft SQL 2000
- Oracle 8i or 9i
- External FrontBase Database Server

**Note:** *If you choose Oracle or Microsoft SQL server, SiteScape recommends that the database server be located on a different system for optimum performance.*

*The Oracle configuration procedures assume a UTF-8 character set database.*

For details about your database configuration, consult your database administrator.

If you are installing for the first time and you are not using the built-in FrontBase component, you must configure the database.

## Configure the Microsoft SQL Database

To configure the Microsoft SQL database:

Step	Action
1	Using a tool such as the Microsoft SQL Server Enterprise Manager, create a database (for example, SITESCAPE).
2	Set the collation sequence to: Latin1_General_CS_AS Setting the collation sequence allows Forum to sort in a case-insensitive manner.
3	Set other management functions, such as location and growth, according to your needs.
4	Use the database Security menus to establish a username and password, and associate them with the SITESCAPE database created in . The database user should have <code>public</code> and <code>db_owner</code> roles selected.

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**Note:** Forum works with Microsoft SQL Server 7, but Microsoft SQL Server 7 cannot establish collation sequences for databases. For completely consistent behavior in case-insensitive sorting, you must use SQL Server 2000.

### Configure the Datasource for Microsoft SQL Server 2000

To configure the datasource, use the ODBC Data Sources control panel. Create and test a system datasource name (DSN) that accesses the database you already created. SiteScape recommends using the name SITESCAPE and testing the datasource before installing.

#### Note the Connect String

During the Forum installation process, the installer prompts you for the connect string for the database. The connect string consists of the DSN name, the database user, and the password. For example:

```
SITESCAPE SITESCAPE password
```

## Configure the Oracle Database

The Oracle configuration procedures assume a UTF-8 character set database.

### To configure the Oracle database:

Step	Action
1	Create a database, and select “UTF8” for both “Character Set” and “National Character Set” options. You may have to perform a custom database configuration to properly configure the character sets.
2	After the database is created, you can verify the character set from SQL with the following query: <pre>select * from nls_database_parameters;</pre> Check that <code>NLS_CHARACTERSET</code> and <code>NLS_NCHAR_CHARACTERSET</code> are set to UTF8.
3	Create a user. Assign the user full access to the database (for example, <code>DBA</code> ).
4	Make a note of the connect string: <code>user/password@databasename</code> The Forum installation process requires this connect string.

## Installing the Oracle Client

You must install the Oracle client on the system running Forum. If necessary, download the software from:

<http://technet.oracle.com/software/products/oracleversionnumber/content.html>

Replace *versionnumber* in the URL above with the number of your version of Oracle.

Install the software on your client machine. Use the Net8 Assistant to configure a network service name that connects to the database you created in the prior steps.

During the installation process, the installer prompts you for the connect string for the database. The format of the Oracle connect string needed to access your database service is:

```
user/password@servicename
```

## Configuring UNIX for Oracle

Step	Action
1	<p>Make sure that both the root user account and the user account from which you are running the installation are Oracle users (with the appropriate Oracle environment).</p> <p>To test this, log in as the intended user and enter this command:</p> <pre>tnsping SITESCAPE</pre> <p>(SITESCAPE is the name of the Oracle database in your connect string.)</p> <p>If you cannot access <code>tnsping</code>, your Oracle environment is not set up correctly. Contact your database administrator or system administrator for assistance.</p>
2	<p>Use the following command to make sure that this path:</p> <pre>/&lt;oracle-client-installation-dir&gt;/lib</pre> <p>is located in the <code>LD_LIBRARY_PATH</code> of the Forum user and root user's environment:</p> <pre>echo \$LD_LIBRARY_PATH</pre> <p>If this path is not in the environment variable above, you must add it to the environment variable before you install Forum.</p>

## Configure the External FrontBase Database Server

Step	Action
1	<p>Create a database:</p> <pre>create database SITESCAPE;</pre>
2	<p>Connect to the database as <code>_system</code>:</p> <pre>connect to SITESCAPE user _system;</pre>
3	<p>Create a user and password:</p> <pre>create user SSFUSER; set password SSFPW user SSFUSER; disconnect all;</pre>
4	<p>Connect to the database as the new user:</p> <pre>connect to SITESCAPE user SSFUSER password SSFPW;</pre>
5	<p>Create the <code>case_insensitive</code> collation:</p> <pre>create COLLATION CASE_INSENSITIVE FOR INFORMATION_SCHEMA.SQL_TEXT FROM EXTERNAL('CaseInsensitive.coll1'); exit</pre>

Step	Action
6	<p>Make a note of the connect string for the database:</p> <p><i>hostname username password databasename</i></p> <p>For example: localhost SSFUSER SSFPW SITESCAPE</p> <p>The Forum installation process requires this connect string.</p>

## Chapter 2: Installing SiteScape Forum

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This chapter provides instructions for performing the following actions:

- Install Forum on Microsoft Windows (first time)
- Install Forum on UNIX Systems (first time)
- Remove Forum from Windows
- Remove Forum from UNIX

If you are installing Forum ZX, Chapter 3 provides information on running the Forum and Zon configuration script once you have installed both Forum and Zon.

Review the release notes for the most up-to-date product information, including notices and restrictions. You can find this file on your SiteScape Forum CD, in the Forum base directory, and linked to the first page of the online Manager Help system.

To install Forum, you must have a valid Version 7.3 license key. The key is provided by your SiteScape representative. To obtain a temporary key or for further information, contact SiteScape sales at [sales@sitescape.com](mailto:sales@sitescape.com).

The license key has the following format:

nnnn-nnnn-nnnn-nnnn-nnnn

The *n* characters are numbers or letters. Case does not matter. Include or omit dashes.

For information about managing license keys, see [Appendix B: License Key Management and Compliance](#).

### ***Install Forum on Microsoft Windows***

Step	Action
1	Log in to the same user account used to install the web server (typically the Administrator account). This ensures that the server has proper access to Forum files.
2	Insert the SiteScape Forum CD in your CD drive.

Step	Action
3	Using Windows Explorer, locate the <code>\nti386</code> subdirectory on the SiteScape Forum CD.
4	Double-click the <code>setup.exe</code> file.
5	The installer appears. Click <b>Next</b> , and then click <b>Next</b> again.
6	Click <b>Agree</b> to accept the license terms and conditions.
7	Specify the Forum base directory. SiteScape recommends: C:\ssf\ <b>Note:</b> <i>Directory names cannot contain spaces.</i>
8	Enter your license key (letters can be either upper- or lowercase, and the dashes are optional). nnnn-nnnn-nnnn-nnnn-nnnn
9	If the installer detects an installed version of Forum in the directory you specified, it prompts you to choose whether to update the existing installation or remove it. If you are upgrading, go to <a href="#">Chapter 3</a> .
10	Specify the directory names for the hidden and visible base directories. <b>Hidden:</b> C:\ssf\hidden <b>Visible:</b> C:\ssf\visible Forum uses the hidden directory to store data for internal use. It uses the visible directory for information that your users can access using URLs.
11	Specify a zone directory name and descriptive title. A zone is a set of users and a collection of forums that they can access. Because the directory name of the zone appears in the URL that your users specify, you may want to use an identifier that describes the purpose of the zone (for example, <code>widgetco</code> ). The descriptive name appears in the banner of Forum pages. An example of a descriptive name is “Widget Company Zone.”
12	Specify a password for the Forum administrator account ( <code>wf_admin</code> ). Remember this username and password; you need it to create and manage forums. If you lose it, you must contact SiteScape for a new password.

Step	Action
13	<p>Select the database you configured in <a href="#">Chapter 1</a> (or the built-in database):</p> <ul style="list-style-type: none"> <li>• FrontBase (built-in)</li> <li>• Microsoft SQL Server 7</li> <li>• Microsoft SQL Server 2000</li> <li>• Oracle</li> <li>• External FrontBase Database Server</li> </ul> <p>If you are using a database other than “FrontBase (built-in),” the installer prompts you for the connect string for the database that you configured in <a href="#">Chapter 1</a>. For example (Microsoft SQL database):</p> <pre>SITESCAPE SITESCAPE password</pre>
14	<p>Review your installation choices, and click <b>Install</b> to copy the files to the specified areas. When all the files are copied, the installation procedure is complete.</p>
15	<p>Your next step is to configure your web server. See <a href="#">Chapter 4</a> for more information.</p>
16	<p>To get started using Forum, see <a href="#">Chapter 5</a>, which provides instructions for accessing Forum.</p>

If the installer reports a problem, `cd` to the Forum base directory and review this file:

```
create-aca-<zone>.log
```

`<zone>` is the name you gave to the default directory at installation. Forum stores installation and upgrade information in this file.

For additional assistance:

- New customers can contact [installsupport@sitescape.com](mailto:installsupport@sitescape.com). Include the error log in your e-mail message.
- Current customers should go to:  
<http://support.sitescape.com/forum/support/dispatch.cgi/support>

## ***Install Forum on UNIX Systems***

You can install Forum on RedHat Linux and Sun Solaris using a graphical user interface or using a command prompt. Both methods are described in this section. Because the installation processes are quite similar on the different UNIX systems, only Solaris differences are noted.

The graphical interface will be used if the `DISPLAY` variable is set, and the X-Server is available. (You may need to do an `xhost +` command to allow access from the install account.)

## Install Forum Using the Graphical Interface

Step	Action
1	Log in as <code>root</code> .
2	Shut down the web servers and exit the browser.
3	Insert the SiteScape Forum CD in your CD drive.
4	Mount the CD using this command: <pre>mount /mnt/cdrom</pre>
5	Create a Forum base directory (for example, <code>/home/sitescape</code> ): <pre>mkdir /home/sitescape chown &lt;web-server-account-name&gt; /home/sitescape chgrp &lt;web-server-account-name&gt; /home/sitescape</pre>
6	Log in with the same account used to install the web server (such as <code>nobody</code> or <code>apache</code> ).
7	Follow these steps to ensure that this account has privileges to create a file in the Forum base directory: <pre>cd /home/sitescape touch foo.txt ls foo.txt rm foo.txt</pre> <p>If you cannot create a file in this directory, contact your system administrator.</p>
8	If necessary, return to the Forum base directory: <pre>cd /home/sitescape</pre>
9	Locate the <code>/linux</code> subdirectory on the SiteScape Forum CD. <b>Solaris:</b> <code>/solaris</code>
10	From the Forum base directory, run <code>ssfinstall.linux</code> . For example: <code>/mnt/cdrom/linux/ssfinstall.linux</code> <b>Or:</b> <code>/mnt/cdrom/solaris/ssfinstall.solaris</code>
11	The installer appears. Click <b>Next</b> , then click <b>Next</b> again.

Step	Action
12	Click <b>Agree</b> to accept the license terms and conditions. (See your Forum kit for a copy of the license.)
13	Specify the Forum base directory. The default is: /home/sitescape <b>Note:</b> Directory names cannot contain spaces.
14	Enter your license key (letters can be either upper- or lowercase, and the dashes are optional). nnnn-nnnn-nnnn-nnnn-nnnn
15	If the installer detects an installed version of Forum in the directory you specified, it prompts you to choose whether to update the existing installation or remove it. If you are upgrading, go to <a href="#">Chapter 3</a> . If the installer does not detect an existing installation, it continues with the next step.
16	Specify the directory names for the hidden and visible base directories. <b>Hidden:</b> /home/sitescape/hidden <b>Visible:</b> /home/sitescape/visible Forum uses the hidden directory to store data for internal use. It uses the visible directory for information that your users can access using URLs.
17	Specify a zone directory name and descriptive title. A zone is a set of users and a collection of forums that they can access. Because the directory name of the zone appears in the URL that your users specify, you may want to use an identifier that describes the purpose of the zone (for example, <i>sales</i> ).
18	Specify a password for the Forum administrator account ( <i>wf_admin</i> ). Remember this username and password; you need it to create and manage forums. If you lose it, you must contact SiteScape for a new password.
19	Select the database you configured in <a href="#">Chapter 1</a> (or the built-in database): <ul style="list-style-type: none"> <li>• FrontBase (built-in)</li> <li>• Oracle</li> <li>• External FrontBase Database Server</li> </ul> If you are using a database other than “FrontBase (built-in),” the installer prompts you for the connect string for the database that you configured in <a href="#">Chapter 1</a> . For example (External FrontBase Database Server): localhost SSFUSER SSFPW SITESCAPE
20	Review your installation choices, and click <b>Install</b> to copy the files to the specified areas. When all the files are copied, the installation procedure is complete.

Step	Action
21	Log back into the <code>root</code> account.
22	To complete the installation of the background service, enter the following: <pre>./avf-configure -install_background</pre> The installation script installs the background for the next reboot and then starts Forum.
23	Your next step is to configure your web server. See <a href="#">Chapter 4</a> for more information.
24	The HTML Viewer feature requires access to an X Windows Server in order to render PowerPoint and other vector-graphics formats properly. The <code>xhost</code> command is required to allow Forum access to the X Windows Server. See the <code>xhost</code> man page for options that may be more appropriate for your site. For example: <pre>xhost +localhost</pre>
25	To get started using Forum, see <a href="#">Chapter 5</a> , which provides instructions for accessing Forum.

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## Install Forum Using the Command Line

Step	Action
1	Log in as <code>root</code> .
2	Shut down the web servers and exit the browser.
3	Insert the SiteScape Forum CD in your CD drive.
4	Mount the CD using this command: <pre>mount /mnt/cdrom</pre>
5	Create a Forum base directory (for example, <code>/home/sitescape</code> ): <pre>mkdir /home/sitescape</pre> <pre>chown &lt;web-server-account-name&gt; /home/sitescape</pre> <pre>chgrp &lt;web-server-account-name&gt; /home/sitescape</pre>
6	Log in with the same account used to install the web server (such as <code>nobody</code> or <code>apache</code> ).

Step	Action
7	<p>Follow these steps to ensure that this account has privileges to create a file in the base directory:</p> <pre>cd /home/sitescape touch foo.txt ls foo.txt rm foo.txt</pre> <p>If you cannot create a file in this directory, contact your system administrator.</p>
8	<p>If necessary, return to the Forum base directory:</p> <pre>cd /home/sitescape</pre>
9	<p>Locate the <code>/linux</code> subdirectory on the SiteScape Forum CD.  <b>Solaris:</b> <code>/solaris</code></p>
10	<p>From the Forum base directory, run <code>ssfinstall.linux</code>.  For example: <code>/mnt/cdrom/linux/ssfinstall.linux</code>  <b>Or:</b> <code>/mnt/cdrom/solaris/ssfinstall.solaris</code></p>
11	<p>Enter <b>yes</b> if you choose to accept the license terms and conditions.</p>
12	<p>Enter the Forum base directory. For example:</p> <pre>/home/sitescape</pre>
13	<p>Enter your license key (letters can be either upper- or lowercase, and the dashes are optional).</p> <pre>nnnn-nnnn-nnnn-nnnn-nnnn</pre>
14	<p>Specify the directory names for the hidden and visible base directories.</p> <p><b>Hidden:</b> <code>/home/sitescape/hidden</code>  <b>Visible:</b> <code>/home/sitescape/visible</code></p> <p>Forum uses the hidden directory to store data for internal use. It uses the visible directory for information that your users can access using URLs.</p>
15	<p>Specify a zone directory name and title.</p> <p>A zone is a set of users and a collection of forums that they can access. Because the directory name of the zone appears in the URL that your users specify, you may want to use an identifier that describes the purpose of the zone (for example, <code>widgetco</code>).</p>
16	<p>Specify a zone manager title (the default is SiteScape Forum Manager).</p>

Step	Action
17	Specify a password for the Forum administrator account ( <code>wf_admin</code> ). Remember this username and password; you need it to create and manage your forums. If you lose it, you must contact SiteScape for a new password.
18	Select the database you configured in <a href="#">Chapter 1</a> (or the built-in database): <ul style="list-style-type: none"> <li>• FrontBase (built-in)</li> <li>• Oracle</li> <li>• External FrontBase Database Server</li> </ul>
19	Press Enter to begin the installation.
20	If you are using a database other than “FrontBase (built-in),” the installer prompts you for the connect string for the database that you configured in <a href="#">Chapter 1</a> . The connect string consists of the DSN name, the database user, and the password. For example (Oracle database): <code>SITESCAPE/sspassword@ssdatabasename</code> Forum is installed, and the files are copied to the directories you created.
21	Log back into the <code>root</code> account.
22	<code>cd</code> to the Forum base directory.
23	To complete the installation of the background service, enter the following: <code>./avf-configure -install_background</code> The installation script installs the background for the next reboot, and the script starts Forum.
24	Your next step is to configure your web server. See <a href="#">Chapter 4</a> for more information.
25	The HTML Viewer feature requires access to an X Windows Server in order to render PowerPoint and other vector-graphics formats properly. The <code>xhost</code> command is required to allow Forum access to the X Windows Server. See the <code>xhost</code> man page for options that may be more appropriate for your site. For example: <code>xhost +localhost</code>
26	To get started using Forum, see <a href="#">Chapter 5</a> , which provides instructions for accessing Forum.

## Remove Forum from Windows

Step	Action
1	Log in to the same user account used to install the web server (typically the Administrator account). This ensures that the server has proper access to Forum files.
2	Insert the SiteScape Forum CD in your CD drive.
3	Using Windows Explorer, locate the <code>\nti386</code> subdirectory on the SiteScape Forum CD.
4	Double-click the <code>setup.exe</code> file.
5	The installer appears. Click <b>Next</b> , then click <b>Next</b> again.
6	Click <b>Agree</b> to accept the license terms and conditions.
7	Specify the Forum base directory.
8	Enter your license key and click <b>Next</b> .
9	When the installer detects the installed version of Forum, it prompts you to choose whether to update the existing installation or remove it.
10	Choose the <b>Deinstall</b> radio button. The installer displays the version information for the installation you are about to delete, and asks for final confirmation.
11	Click <b>Delete</b> . The installer removes Forum.

## Remove Forum from UNIX

Step	Action
1	Shut down the web servers and exit the browser.
2	Log in as user <code>root</code> .
3	Shut down the <code>avf-background</code> process with the following command: <pre>cd &lt;Forum-base-directory&gt; ./avfbackground.sh stop</pre>
4	Verify that the FrontBase processes are no longer running: <pre>ps -ef   grep -i FrontBase</pre>
5	Remove the directory containing the SiteScape Forum file: <pre>rm -rf</pre> <p>Because the <code>-rf</code> switch removes all subdirectories without prompting, be sure that the current directory is the correct one.</p>

For additional assistance:

- New customers can contact [installsupport@sitescape.com](mailto:installsupport@sitescape.com)
- Current customers go to <http://support.sitescape.com/forum/support/dispatch.cgi/support>

## Chapter 3: Upgrading SiteScape Forum

---

If you are upgrading from Forum Version 6.0 to Forum Version 7.3, you need to run a pre-installation script that checks your current database for errors. See “Upgrading from Version 6.0” for more information.

**Important:** *Due to the large number of changes that occur when upgrading from Version 6.0 to Version 7.3, SiteScape recommends that you contact SiteScape Support at <http://support.sitescape.com> if you plan to upgrade from Version 6.0.*

**Note:** *License compliance and management of Program Management and TCAMM user licenses changed in Version 7.2. See [Appendix B: License Key Management and Compliance](#) for details.*

### **Disk Space Warning for Upgrades**

Upgrades from Forum installations prior to Version 7.0 require a significant amount of free disk space to complete successfully.

Depending on the makeup of your forums and your database configuration, you should expect the amount of disk space consumed to increase to two to three times the current amount. This space may be on your local disk or on your database server, depending on your configuration.

Attachments are still stored in the file system and do not contribute to the growth. The search indexes also do not increase significantly. If you are running an SQL database, the abstract storage and metadata (formerly stored in the `.webletdb*` files) are transferred to the SQL database. SiteScape’s experience is that SQL databases consume significantly more disk space than FrontBase, the built-in database.

After the upgrade is complete, you can reclaim some of the disk space consumed by deleting the abstract files and old database files. See “Reclaim Disk Space after Upgrading from Version 6.0” for more information.

Refer to the SiteScape Forum 7.3 Release Notes for additional information on disk space requirements and calculations.

## The Upgrade Procedure

When you upgrade your installation, the Forum installer first copies a new version of the software to the disk. It then invokes the upgrade procedure, which is a script that is run by the `avf-butler` program (`scripts/upgrade.wfb`).

The procedure examines the state of the databases and invokes the appropriate set of upgrade steps required for the server. The time it takes to perform these steps is highly dependent on the amount and type of information stored on your system. The steps in the next section provide a sense of the scope of the upgrade process.

The Version 7.3 upgrade is somewhat tolerant of problems discovered during the upgrade. This allows sites to complete the bulk of the upgrade and then troubleshoot any issues later.

If the upgrade procedure fails for any reason, you can restart it manually by opening a command prompt and, from the Forum base directory, invoking the upgrade script, which is one of the following:

```
avf-butler scripts/upgrade.wfb
./avf-butler scripts/upgrade.wfb
```

It is not harmful to repeat the upgrade procedure. The procedure examines the state of the forums and zones and determines the best way to perform the upgrade. In certain special circumstances, the procedure may do a “fast” upgrade, in which it performs only a minimal number of steps because there are no database changes to be made.

The upgrade procedure sends its output to two places. The installer window shows a high-level summary of the status of the upgrade. The procedure also creates a new `upgrade.log` file containing the same summary plus additional details that may be useful in diagnosing problems. (The existing `upgrade.log` file is renamed with a timestamp before the procedure creates the new log file.)

### Upgrading from Version 7.0 - 7.2

When you upgrade from Version 7.2, the following takes place:

1. The template cache is rebuilt. This takes only a few seconds.
2. The stylesheets are rebuilt. This should take less than a minute.  
  
While it is unlikely, problems can occur during this process if the web server caches a style sheet file, making it impossible to replace. This is one reason that SiteScape recommends that you shut down the web server during upgrades.
3. The background-schedule database is reset.
4. Miscellaneous changes to Version 7. 2 database files
5. Build new zone-wide index. (Required for v7.0 and v7.1 upgrades only)

Every forum will be processed to build a zone-wide search index (for each zone). This is done in background after the upgrade process completes. Index building should be

allowed to complete before users are allowed access to the system, but it is not absolutely necessary. Should users access the system prior to the completion of building the index, searches to the zone-wide index will return complete results.

6. Each forum resubmits any background tasks it may require to support notifications or other activities.
7. Obsolete files are deleted. These include templates, Help files, and libraries no longer used by Forum.

## Upgrading from Version 6.0

**Important:** Due to the large number of changes that occur when upgrading from Version 6.0 to Version 7.3, SiteScape recommends that you contact SiteScape Support at <http://support.sitescape.com> if you plan to upgrade from Version 6.0.

Upgrading from releases prior to Version 7.0 involves moving from the built-in ndbm database to an SQL database. SiteScape provides a pre-installation script, which you must run prior to upgrading. This script scans the existing server and reports data which may be incompatible with the SQL database.

When you are upgrading from Version 6.0, before the upgrade procedure begins, each forum is converted to the SQL database that you specified during the installation process. Data stored in the `.webletdb` files and the `.abstract` files is converted and stored in the SQL database. Other data, such as attachments, currently remains in the file system. (For information about reclaiming this disk space, see "Reclaim Disk Space after Upgrading from Version 6.0.")

Access the pre-installation script from the SiteScape Forum CD, or download it from the following URL:

<http://support.sitescape.com/forum/support/dispatch.cgi>

Once in the Support forum, select the Patch Library folder, and then the SiteScape Forum 7.2 Patches folder.

### To run the script:

Step	Action
1	Create a new directory under your Version 6.0 base directory, and name it <code>convert72</code> .
2	Unzip the contents of <code>preinstall.zip</code> to the new directory.
3	From the Command Prompt, enter the following command: <pre>cd &lt;Forum-V6-base-directory&gt; avf-butler convert72/preInstallValidate.tcl</pre>

**Note:** If you have a pre-6.0 version of SiteScape, or if the script generates an error or warning, and if you are a current customer, go to this URL:

<http://support.sitescape.com>

## Upgrade on Microsoft Windows

### To upgrade Forum on Microsoft Windows:

Step	Action
1	Back up your Forum directories and subdirectories.
2	Shut down all web servers and exit your browser.
3	Insert the SiteScape Forum CD in your CD drive.
4	Using Windows Explorer, locate the <code>\nti386</code> subdirectory on the SiteScape Forum CD.
5	Double-click <code>setup.exe</code> .
6	The installer appears. Click <b>Next</b> , then click <b>Next</b> again.
7	Click <b>Agree</b> to accept the license terms and conditions. (See your Forum kit for a copy of the license.)
8	Specify the Forum base directory.
9	Enter your license key, if needed, then click <b>Next</b> . (If you are reinstalling the same version of the same software, you do not need to specify a key.) <i>Note:</i> If you do not have a key, you can obtain one by sending an e-mail request to <a href="mailto:sales@sitescape.com">sales@sitescape.com</a> .
10	When the installer detects the installed version of Forum, it prompts you to choose whether to update the existing installation or remove it.
11	Specify that you are updating the current installation and click <b>Next</b> .
12	The installation procedure displays the choices you have made. Review your installation choices and click <b>Install</b> to copy the files to the specified areas. Upgrade information is reported for existing discussion and documentation forums.

## Upgrade on UNIX Systems

### To upgrade Forum on Red Hat Linux or Solaris:

Step	Action
1	Back up your Forum directories and subdirectories.
2	Shut down all web servers and exit your browser.
3	Log in as user <code>root</code> .
4	<code>cd</code> to the Forum base directory.
5	Shut down the <code>avf-background</code> process: <code>./avf-background stop</code>
6	Ensure that your HTTP server has read and write access to the files in the visible directory. Log in to the same user account ( <code>nobody</code> or <code>apache</code> ) that the web server ( <code>httpd</code> ) runs as. For example: <code>su nobody</code>
7	Insert the SiteScape Forum CD in your CD drive.
8	Mount the SiteScape Forum CD using one of the following commands: <b>Linux:</b> <code>mount /mnt/cdrom</code> <b>Solaris:</b> automatically mounts the CD
9	<code>cd</code> to the Forum base directory. <code>cd /home/sitescape</code>
10	Execute the files in that directory: <b>Linux:</b> <code>/mnt/cdrom/linux/ssfinstall.linux</code> <b>Solaris:</b> <code>/mnt/cdrom/solaris/ssfinstall.solaris</code>
11	Enter your license key, if needed, then click <b>Next</b> . (If you are reinstalling the same version of the same software, you do not need to specify a key.) <b>Note:</b> <i>If you do not have a key, you can obtain one by sending an e-mail request to <a href="mailto:sales@sitescape.com">sales@sitescape.com</a>.</i>
12	Enter <code>yes</code> to confirm that you are running under the same user account used to install the web server, or one with identical read and write privileges.

Step	Action
13	Enter and confirm your httpd user account name. The installation procedure lists the zones and forums as they are updated.
14	The HTML Viewer feature requires access to an X Windows Server in order to render PowerPoint and other vector-graphics formats properly. The <code>xhost</code> command is required to allow Forum access to the X Windows Server. See the <code>xhost</code> man page for options that may be more appropriate for your site. For example (you must be logged in as <code>root</code> ):  <code>xhost +localhost</code>

**Note:** If the installation procedure reports a problem, check the `logs/upgrade.log` file for errors. For additional assistance, go to this URL:

<http://support.sitescape.com>

## Reclaim Disk Space after Upgrading from Version 6.0

During an upgrade from Version 6, Forum copies the contents of the `ndbm` database files and abstract files into the SQL database (the attachment files remain on the file system). As a precaution, the old files are not removed from your file system. After the upgrade, you can reclaim this disk space by running the `v7cleanup.tcl` script:

Step	Action
1	<code>cd</code> to the Forum base directory.
2	Invoke the script using the butler: <code>avf-butler scripts/v7cleanup.tcl</code> The script prompts you for zone names. You can clean up one, several, or all zones.
3	Enter the zone names separated by spaces, or enter an asterisk ( <code>*</code> ) to select all zones. The script deletes all <code>.webletdb*</code> files and <code>*.abstract</code> files in the forums.

## Chapter 4: Configuring Web Servers

---

After you install SiteScape Forum, you must configure the web server to support it. The web servers described in this chapter include:

- Microsoft IIS Versions 5.0 and 6.0
- Apache Servers
- Sun ONE Portal Server 6

To configure the Microsoft IIS web server for use with Forum, you must perform the following actions:

- Create the Virtual Directory
- Change Timeout Settings
- Adjust Web Site Properties for Java Support

Microsoft IIS Version 6 contains many new configuration settings that can interfere with proper SiteScape operation. If you have difficulties after following these instructions, contact SiteScape Support at <http://support.sitescape.com>

### Create the Virtual Directory

---

Step	Action
1	From the <b>Start</b> menu, select the <b>Settings</b> menu item.
2	Select the <b>Control Panel</b> and click <b>Administrative Tools</b> .
3	Click the <b>Internet Services Manager</b> icon.
4	In the left pane of the window, click the name of the computer on which you installed Forum.
5	In the right pane, click <b>Default Web Site</b> .

Step	Action
6	Click the <b>Action</b> toolbar item, select <b>New</b> , then <b>Virtual Directory</b> . Microsoft IIS starts the Virtual Directory Wizard. Click <b>Next</b> to continue.
7	The wizard prompts you for a virtual directory alias. Enter the alias name in the text box, for example, <code>forums</code> . To see where this alias appears in the URL for accessing Forum, see Chapter 6.
8	Click <b>Next</b> .
9	The wizard prompts you for a web site content directory. Click <b>Browse</b> and map the content directory to the <code>visible</code> directory on your disk (by default, <code>&lt;Forum-base-directory&gt;\visible</code> ). Click <b>Next</b> .
10	The wizard prompts you for access permissions. Select <b>Read</b> and <b>Execute</b> access. Clear the <b>Run Scripts</b> checkbox, then click <b>Next</b> .
11	Click <b>Finish</b> .

## Change Timeout Settings

For Forum to run correctly, you must make the following changes to your Microsoft IIS 5.0 server:

Step	Action
1	In the right pane of the Internet Information Services window, right-click <b>Default Web Site</b> and choose <b>Properties</b> .
2	Click the <b>Web Site</b> tab.
3	In the Connections section, in the <b>Connection Timeout</b> text box, change the value to 3600 seconds. This instructs IIS to wait for the Forum process to finish.
4	Click <b>Apply</b> .
5	Click <b>OK</b> .

## Adjust Web Site Properties for Java Support

For Forum to run Java applets properly, you must remove **Execute Permission** from the IIS Server:

Step	Action
1	In the right pane of the Internet Information Services window, double-click <b>Default Web Site</b> .
2	In the right pane, locate the virtual directory alias you created (for example, <code>forums</code> ) and double-click it.
3	In the right pane, right-click the <code>/pics</code> directory and choose <b>Properties</b> .
4	Click the <b>Directory</b> tab.
5	In the Execute Permissions drop-down menu, choose <b>None</b> .
6	Click <b>Apply</b> .
7	Click <b>OK</b> .
8	Go to Chapter 6 for information about accessing Forum.

## Apache Servers

**To configure the Apache web server for use with Forum:**

Step	Action
1	<code>cd</code> to the <code>conf</code> subdirectory under the Apache installation directory. For example: <code>/usr/apache-install-dir/conf</code>
2	The following are examples of the lines that you must add to the <code>httpd.conf</code> file. These lines use the example directory names provided as the default during installation. Be sure to specify the directory names that apply to your system and its installation. <ul style="list-style-type: none"><li>• Example (Windows):<pre>Alias /forums "C:/ssf/visible/" &lt;Directory "C:/ssf/visible"&gt;     Options ExecCGI Indexes FollowSymLinks     AllowOverride None     order allow,deny</pre></li></ul>

Step	Action
	<pre> allow from all &lt;/Directory&gt; </pre> <ul style="list-style-type: none"> <li>• <b>Example (UNIX):</b> <pre> Alias /forums /home/sitescape/visible/ &lt;Directory /home/sitescape/visible&gt;     Options ExecCGI Indexes FollowSymLinks     AllowOverride None     order allow,deny     allow from all &lt;/Directory&gt; </pre> <p>C:/ssf/visible/ and /home/sitescape/visible indicate the path to the visible directory that you specified during the Forum installation. The lines in the Directory tag enable the ExecCGI and other options needed to run Forum properly.</p> </li> </ul>
3	<p>The following lines sometimes appear in the <code>httpd.conf</code> file as commented lines, and sometimes they are not in the file. If these lines are not present, add them. If they are present, remove the comment characters.</p> <pre> AddHandler cgi-script .cgi AddType application/x-http-cgi .cgi </pre> <p>These lines establish global permission for the execution of CGI scripts.</p>
4	Save the changes to the file.
5	Stop and restart the Apache web server so the changes can take effect.
6	Go to Chapter 6 for information about accessing Forum.

## Sun ONE Portal Server 6

To configure the Sun ONE Portal server for use with Forum, you must perform the following actions:

- Enter the Administration Server and Select the Server to Configure
- Activate CGI as a File Type
- Establish the Visible Directory as an Additional Document Directory
- Set the `KeepAliveTimeout` value to 0

## Enter the Administration Server and Select the Server to Configure

---

Step	Action
1	Double-click the <b>Start Administration Server</b> icon, or enter the URL to start the administration server in the browser: <code>http://hostname.domain-name.com:administration-port</code> The default port number is 8888.
2	Enter the username and password at the prompt.
3	Select the appropriate server name from the drop-down menu, and click <b>Manage</b> .

---

## Activate CGI as a File Type

---

Step	Action
1	From the main Manager screen, click the <b>Class Manager</b> link in the top frame.
2	From the Class Manager, select the <b>Programs</b> tab.
3	Click the <b>CGI File Type</b> link in the left frame. The browser displays CGI as a File Type form in the main frame.
4	Click <b>Yes</b> in the Activate CGI as File Type field. (If <b>Yes</b> is already selected, go to the next procedure, <i>Establish the Visible Directory as an Additional Document Directory</i> .)
5	Click <b>OK</b> .
6	When prompted for confirmation, click <b>OK</b> .

---

## Establish the Visible Directory as an Additional Document Directory

---

Step	Action
1	From the Class Manager, select the <b>Content Mgmt</b> tab.
2	Click the <b>Additional Document Directories</b> link in the left frame. The browser displays the Additional Document Directories form in the main frame.
3	In the URL prefix field, enter the alias you want to assign to the visible directory. The alias should be a meaningful name to the Forum user community. A typical alias is <code>forums</code> .
4	In the “Map to Directory” field, enter the directory path that maps to the URL prefix entered previously. The location of the visible directory depends on the values you specify during installation.
5	Click <b>OK</b> .
6	When prompted for confirmation, click <b>OK</b> .

---

## Set the `KeepAliveTimeout` Value to 0

---

Step	Action
1	To return to the main Manager menu, click the large grey button in the top frame that lists the full server ID name.
2	Click the <b>Magnus Editor</b> link in the left frame.
3	From the settings drop-down menu in the main frame, select <b>Keep Alive Settings</b> and click <b>Manage</b> . Your browser displays the Keep Alive Settings form in the main frame.
4	Enter 0 in the Value field for <code>KeepAliveTimeout</code> . The rest of the fields may be left blank.
5	Click <b>OK</b> .
6	When prompted for confirmation, click <b>OK</b> .
7	To activate all the changes, click the <b>Apply</b> link in the top frame.
8	In the main frame, click <b>Apply Changes</b> . This causes the server to stop and restart, applying the changes.

---

Step	Action
------	--------

- 9 When prompted for confirmation, click **OK**.
- 10 Go to Chapter 6 for information about accessing Forum.



## Chapter 5: Configuring SiteScape Forum ZX

---

This chapter provides instructions for performing the following actions:

- Obtaining required Zon information
- Associating Forum with Zon
- Provides an example of an XML configuration file.

To use the new features in Forum ZX, you must:

1. Install and configure your Forum Server  
You must complete the installation and configuration instructions in Chapters 2 and 4.
2. Set up and configure your Zon Server  
Refer to the "*SiteScape Zon Server Installation*" documentation, as well as the "*SiteScape Zon Operations Guide*" for instructions on installing and configuring your Zon Server.
3. Run the `make-zon-config.tcl` file to configure the Zon presence in Forum ZX.  
The `make-zon-config.tcl` script file asks for the various server names and IP addresses for your Zon installation. The script creates the required associations between Zon and Forum ZX for presence, user information icons, and real time communication. The output of this script is file named `new-zon-config.xml`, which can be reviewed and edited. Once the file has been created, rename the file to `zon-config.xml`.

### **Getting Zon Information**

Before running the `make-zon-config.tcl`, you will be asked for sever names, IP addresses, and other information about Zon components. The following worksheet assists in identifying the Zon Server parameters that will be used when configuring Forum ZX. Complete the worksheet with the values you entered when configuring your Zon Server. Refer to your Zon Server installation to obtain the following:

Zon Parameter	Description	Your Zon Server Values
<b>Zon Server Name or IP Address:</b>	The name or IP address that you provided when installing the Zon Server.  For example: zoncontrol.sample.org or 70.60.50.40	
<b>Zon XML Router Name or IP Address:</b>	The name or IP address of the XML router.  For example: zonxml.sample.org or 70.60.50.41	
<b>Zon XML Router External Host Name:</b>	The resolvable host name of the XML router.  For example: zon.sample.org	
<b>Default Zon Download Host Name:</b>	The name of the Zon Server where people will download the Windows-based Zon Client.  For example: zon.sample.org	
<b>Zon Administration ID:</b>	A Zon Super Administrator ID. If you took the default settings when you installed Zon, the Super Administrator ID is admin.	
<b>Zon Administration Password:</b>	The Zon Super Administrator password. If you took the default settings when you installed Zon, the default Super Administrator password is admin.	
<b>Default Zon Community Name:</b>	The default Zon Community name. If you used the defaults when installing Zon, the name of the default System Community.	
<b>Voice Bridge (Y/N)</b>	Is your Zon Server configuration using a Voice Bridge? The possible answers are Yes or No.	

## Running the *make-zon-config.tcl* script

Running the `make-zon-config.tcl` script will create a file named `new-zon-config.xml`. This script will create a basic installation of Forum ZX. If you need to modify the XML file, or you have further requirements, please contact SiteScape support.

### To run the script:

1. Access the SiteScape Forum directory using a command prompt.

The default SiteScape Forum directory in this example is `/SSF7`

2. Enter the following `avf-butler` command:

```
C:\SSF7> avf-butler scripts/make-zon-config.tcl
```

3. When prompted, provide the Zon Server information acquired above.
4. When the script finishes, review the `new-zon-config.xml` file.

If necessary, you can make modifications or changes to the file using a text editor. However, making changes to this file may invalidate the configuration. Please contact SiteScape Support if you need to make significant changes to this file.

5. Once you have verified the file, save it with the name `zon-config.xml`.

You must stop and restart Forum for the settings to take place.

### Example of a `new-zon-config.xml` file

Below is an example of an XML file created with the examples listed above:

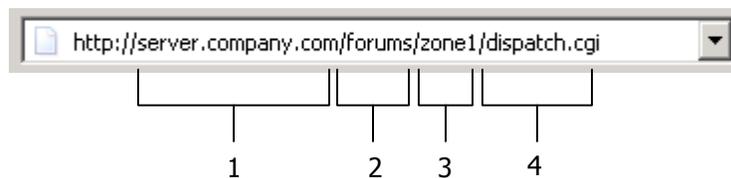
```
C:\SSF7>type new-zon-config.xml
<ssf_config version="1.0">
  <service name="zon">
    <setting id="admin.id">admin</setting>
  </service>
  <service name="zon">
    <setting id="admin.password">admin</setting>
  </service>
  <service name="zon">
    <setting id="attrMap.add"></setting>
  </service>
  <service name="zon">
    <setting id="attrMap.delete"></setting>
  </service>
  <service name="zon">
    <setting id="clientDownload.url">http://zon.sample.org
```

```
    /imidio/downloads/imidiolaunch.exe</setting>
</service>
<service name="zon">
    <setting id="community.default">SystemCommunity</setting>
</service>
<service name="zon">
    <setting id="enabled">1</setting>
</service>
<service name="zon">
    <setting id="jabberDomain">zon.sample.org</setting>
</service>
<service name="zon">
    <setting id="pollDelay">30000</setting>
</service>
<service name="zon">
    <setting id="presenceStream.host">70.60.50.41</setting>
</service>
<service name="zon">
    <setting id="presenceStream.port">5353</setting>
</service>
<service name="zon">
    <setting id="url">http://70.60.50.40:8000/imidio_api/
    </setting>
</service>
<service name="zon">
    <setting id="voiceBridge">1</setting>
</service>
</ssf_config>
```

## Chapter 6: Accessing Forum and Getting Started

---

To access SiteScape Forum, enter a URL in the following format:



The sections of this URL are:

1. The physical machine; for example, `collab.acme.com`
2. Your web-server alias (*forums* is the suggestion from [Chapter 4](#))
3. The name of your zone (*zone1* is the default)
4. Forum internal program

The top-level workspace is prepopulated with a few forums to get you started, including tutorials for users and managers.

### ***The Forum Environment***

Because SiteScape uses an authentication protocol based on cookies, each Forum user must have their browser configured to accept cookies or to ask for confirmation before accepting cookies.

After you create forums (discussion and document-sharing forums, calendars, workspaces, teams, and more), the workspace displays only the forums and workspaces to which the current user has access.

### ***The Help System***

For information on getting started with Forum, view a workspace page and click **Help** in the upper-right corner of the page.

The first time you access Help (or after you upgrade your Forum installation or reindex the Help files), Forum builds the Help system, which can take a few minutes. When Forum is finished indexing the system, click **OK** to view Help information.

Click **Getting Started Manuals** in the left frame of the Help window to download the *Getting Started Guide for Managers* and *Getting the Most Out of Online Collaboration* manuals. The first manual describes the initial setup of the zone. The second manual addresses ways to create an inviting collaborative space, ways in which your zone can best serve your users, ways to populate your zone to assist users in getting started, and other tips for optimizing the use of Forum.

To read getting-started information in the Help window, click **Getting Started with Forum**. To access online Help for managers, click the **Show Help topics for Managers** link at the top of the left frame of the Help window.

## ***Additional Assistance***

There are several options available for customer assistance:

- For installation support, e-mail [installsupport@sitescape.com](mailto:installsupport@sitescape.com) (new customers only). If you have error logs, include them with your message.
- SiteScape Help Web Site  
<http://help.sitescape.com/>  
Provides access to documents, Help files, white papers, and more.
- SiteScape Support Forum (current customers only)  
<http://support.sitescape.com/forum/support/dispatch.cgi/support>  
Provides access to support engineers who can answer your questions and help you solve problems. Available to customers with maintenance contracts.
- SiteScape Customization Forum  
<http://support.sitescape.com/forum/support/dispatch.cgi/custom>  
Provides access to support engineers who can answer your questions about using templates, using the Forum Toolkit, and other customization questions. Available to customers with maintenance contracts.
- Paid-service telephone support is also available.

For more information about Forum technical support or about other SiteScape products and services, contact [sales@sitescape.com](mailto:sales@sitescape.com).

## ***Portal Support***

You can view and use Forum through portal web pages using Forum's specialized interfaces for portals.

When you use Forum through supported portal software, you need to perform additional configuration tasks. For more information about portal support, configuration, and the status of vendor partnerships, visit our Help web site at <http://help.sitescape.com> and click **Portals**.



## Chapter 7: Performance Optimization

---

You may find that heavy use of SiteScape Forum results in performance degradation. You can optimize performance by increasing the number of running dispatchers. Also, if you are using the FrontBase database, there are a few more configuration settings that can dramatically improve your performance.

### ***Increase the Number of Running Dispatchers***

To increase the number of running dispatchers, you may need to increase the memory and speed of your server. SiteScape recommends that you monitor your system to determine the impact of adding dispatchers.

It is also possible to decrease the number of dispatchers.

#### **To increase or decrease the number of running dispatchers:**

Step	Action
1	Edit the <code>avf.conf</code> file in your Forum base directory.
2	Add the following definition variable, or if the variable exists, change its value to: <pre>set Wgw_BaseProps(dispatcher.residents) n</pre> The number <code>n</code> specifies the number of dispatchers you want Forum to run.
3	Save and close the <code>avf.conf</code> file.
4	Stop and restart Forum.

---

### ***FrontBase Performance Tuning***

FrontBase, like most database servers, works best when all or a significant portion of the database can be cached in memory. FrontBase uses a mechanism called the "raw device driver" cache (*rdd cache*). You can improve performance by increasing the size of the rdd cache.

## Set the Size of the rdd cache

---

Step	Action
1	Open the following file in a text editor: <code>FrontBase/Databases/SITESCAPE.options</code>
2	In the file, set the <code>-rdd</code> option to the appropriate value (where <code>N</code> is the number of megabytes to devote to the cache): <code>-rdd=N</code> Example: <code>-localonly -rdd=500</code>

---

Ideally, you should set `N` to the size of your database. You can determine this number by checking the size of the `SITESCAPE.fb` file. The `-rdd` setting directly affects the virtual memory size of the FrontBase process. Make sure that you have adequate RAM to support the rdd cache size, or you could cause your server to "thrash."

## Relocate Files

You can improve performance by relocating the database and transaction log files to different physical disk drives. This action reduces the competition for disk access and can improve write performance and overall system performance.

---

Step	Action
1	Stop the FrontBase database service.
2	Relocate the <code>/TransactionLogs</code> or <code>/Databases</code> directory to another drive. (The <code>/TransactionLogs</code> directory is a good first choice.)
3	To inform FrontBase of the changes, create the following file with a text editor: <code>/FrontBase/Library/FrontBase.config</code> In the file, add lines following this format: <code>&lt;type&gt; = &lt;location&gt;</code> where <code>&lt;type&gt;</code> is one of the following: <ul style="list-style-type: none"><li>• <code>Databases</code></li><li>• <code>TransactionLogs</code></li><li>• <code>Backups</code></li></ul> Examples: <code>TransactionLogs = D:/FBLogs</code> <code>Databases = /disk12/fb/databases</code>

---

**Note:** When you change the FrontBase configuration, you must stop the SiteScape Forum service, stop the FrontBase SITESCAPE service, change the configuration and file placement, and then restart Forum.



## Appendix A: Compatible Browsers

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SiteScape Forum performs well on most currently used browsers as of this writing. However, due to browser limitations, some Forum features are not supported on certain browsers. In some cases, Forum provides alternate ways of performing these functions.

In this table, a checkmark ( ✓ ) indicates that the browser supports the Forum feature. See below for notes.

Feature	IE 5.5	IE 6.0	IE 6.1	NN 7.0	NN 7.1	FireFox 1.0	Safari 1.2
HTML Editor	✓	✓	✓	✓	✓	✓	
Multi-File Upload	✓	✓	✓	✓	✓	✓	✓
Multi-File Download	✓	✓	✓	✓	✓	✓	✓
File Drop Applet	✓	✓	✓	✓ <sub>4</sub>	✓ <sub>4</sub>	✓ <sub>4</sub>	
Editing Applet	✓	✓	✓	✓	✓	✓ <sub>4</sub>	
Graphical Workflow	✓ <sub>2</sub>	✓ <sub>1</sub>	✓ <sub>1</sub>	✓ <sub>3</sub>	✓ <sub>3</sub>	✓ <sub>3</sub>	✓ <sub>3</sub>
NT Domain Authentication	✓	✓	✓				
Forum Overview	✓ <sub>1,2</sub>	✓ <sub>1</sub>	✓ <sub>1</sub>				
Spell Checker	✓	✓	✓	✓	✓	✓	✓

Feature	IE 5.5	IE 6.0	IE 6.1	NN 7.0	NN 7.1	FireFox 1.0	Safari 1.2
2D CAD Viewer	✓	✓	✓	✓	✓		
3D CAD Viewer	✓	✓	✓				

1. Feature requires and will auto-install SVG Viewer Plug-in from Adobe, Inc.
2. Feature requires manual download of SVG Plug-in.
3. Feature available but will use static graphic rather than SVG.
4. Only on Windows clients.

**Note:** Many SiteScape features are available on other browsers (such as Safari 1.2, Palm Web Pro 3, and Pocket IE), but may have formatting and layout issues. SiteScape is continually working to expand browser support.

## Appendix B: License Key Management and Compliance

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When you install or upgrade SiteScape Forum, you must provide a Forum license key. After the installation or upgrade is complete, you can use the zone-management menu to enter additional license keys for features such as SiteScape Program Management, Forum eMeeting, or SiteScape TCAMM.

For added security, the last four digits of each license key are an authentication code. After you enter a license key, the last four digits are not stored or displayed in Forum.

**Note:** *License-key management is server-wide: when you add or change a license key, all zones are immediately affected.*

### Add-On Modules

Forum has several add-on modules, including:

- Forum eMeeting

Forum eMeeting is fully integrated with Version 7.3 and facilitates the following real-time capabilities:

- Web meetings
- Virtual presentations
- Whiteboarding with mark-up
- Application sharing
- Voice over IP
- Video Web conferencing

- Program Management

The Program Management module offers a set of features that assist in the delivery of a variety of interrelated products and services. The central feature of Program Management is the program dashboard, which includes a set of integrated forums that are specifically designed for efficient program work. "Stoplight" status icons on the dashboard allow program managers immediate visibility into the current status of the different components of the program.

- TCAMM (Tactical Calendar, Action Item, and Meeting Management)

TCAMM is the ideal solution for government and military program managers to manage meetings and the calendars, action items, decision histories, and documents that are related to those meetings. The calendars in TCAMM are customized to provide detailed information to the end user, including directions to the meeting, attached documents, the associated project, associated action items, meeting minutes, and more. TCAMM is highly secure and is PKI-enabled.

These products require separate license keys. For more information on purchasing Forum eMeeting, Program Management, or TCAMM, contact [sales@sitescape.com](mailto:sales@sitescape.com).

## ***Enforcement of Program Management and TCAMM***

Prior to Version 7.2, there was no license compliance checking for the Program Management (PM) or TCAMM options. If you have an unlimited PM or TCAMM key (listed as zero users in the license-key management report), the number of users is automatically set to your existing key and no additional management is required.

If you licensed a subset of users for PM or TCAMM (for example, you have a 1000-user Forum license and a 50-user PM license), you must explicitly identify each of those users in each zone that uses the option. You do this by creating a group and populating it with the individuals (or subgroups) that make up the licensed users. A user must be a member of the group to access the specific features of the option.

For TCAMM, create a group with the "group internal name" of `_licensed_tcam_users`. For PM, use the internal name `_licensed_pm_users`. These groups are like any other group and can be used in access control or other Forum features.

## ***License Compliance***

The "Check license compliance" option analyzes all zone user databases on your server and produces a summary report of your compliance for Forum and all optional components. The report is in an easy-to-read format, highlighting any potential compliance problems for each zone.

**Note:** *Because of the analysis that must be done, if you have many zones or large zones, the "Check license compliance" option may take several seconds to complete.*

SiteScape user licensing is based on the e-mail address of each user account, regardless of which zone(s) they are in. An empty e-mail address counts as a unique user. This means that an individual can have multiple accounts in one or more zones and be counted as only a single licensed user. This accounting rule is also applied if you have a separate license for PM or TCAMM. Consequently, it will be commonplace to have more user accounts (or group members) than licensed users.

If you have questions about your license keys or license agreement, please contact your SiteScape account representative at [sales@sitescape.com](mailto:sales@sitescape.com).



## Appendix C: Running Multiple Installations

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This section describes the process for installing and switching between multiple instances of SiteScape Forum on the same machine.

### ***Switch Between Two Installations on Windows***

On Windows systems, only one instance of Forum can be running at one time. To install or upgrade multiple instances of Forum on Windows, you must switch the active installation to the installation that you want to upgrade, and upgrade each installation separately. Use the command-line instructions in this section, not the Services application, for switching installations. Otherwise, the upgrade process places the upgrade information in the wrong installation database.

You can use the Services window to check which database is currently installed:

<b>Step</b>	<b>Action</b>
<b>1</b>	From the <b>Start</b> menu, select the <b>Settings</b> menu item.
<b>2</b>	Select the <b>Control Panel</b> and click <b>Administrative Tools</b> .
<b>3</b>	Click the <b>Services</b> icon.
<b>4</b>	In the Services window, right-click the “FrontBase SITESCAPE” process.
<b>5</b>	Select <b>Properties</b> .
<b>6</b>	Determine that the “Path to executable” corresponds to the installation you want to upgrade.

---

## To install another instance of Forum on the same machine running Windows with a FrontBase installation:

Step	Action
1	From a command prompt, <code>cd</code> to the Forum base directory: <code>cd &lt;Forum-base-directory&gt;</code>
2	Uninstall the Forum service: <code>avf-background -u</code>
3	Remove the FrontBase service: <code>cd &lt;Forum-base-directory&gt;\frontbase\bin frontbase -remove SITESCAPE</code>
4	Install (see <a href="#">Chapter 2</a> ) or upgrade (see <a href="#">Chapter 3</a> ) Forum in a different directory than that of the first installation.

If the removal of the `SITESCAPE` process in the first installation area has not yet completed by the time you attempt to install the process in the second installation area, an error may occur. If this happens, stop and restart the command window, and then retry these commands. Repeat these steps until the commands execute successfully.

## To switch between two installations of Forum on Windows:

Step	Action
1	Uninstall the currently running SiteScape service: <code>cd &lt;first-Forum-base-directory&gt;</code> <code>avf-background -u</code>
2	Remove the FrontBase Service from the FrontBase directory in the current installation: <code>cd &lt;first-Forum-base-directory&gt;\frontbase\bin</code> <code>frontbase -remove SITESCAPE</code>
3	From the Forum base directory of the installation to which you want to switch, activate the installation: <code>cd &lt;second-Forum-base-directory&gt;\frontbase\bin</code> <code>frontbase -install SITESCAPE</code> <code>cd &lt;second-Forum-base-directory&gt;</code> <code>avf-background -i</code>

## Switch Between Two Installations on Linux or Solaris

If you are running Linux or Solaris, you can run simultaneous installations of Forum if only one installation uses the FrontBase built-in database (which comes with Forum), or if you are using databases other than FrontBase, such as Oracle.

### To switch between two installations of Forum on Linux or Solaris:

Step	Action
1	Stop the currently running SiteScape service: <pre>cd &lt;first-Forum-base-directory&gt; ./avfbackground.sh stop</pre>
2	Verify that the FrontBase processes are no longer running: <pre>ps -ef   grep -i FrontBase</pre>
3	Edit the Forum and FrontBase startup scripts from the <code>/etc/rc</code> directories to point to the new installation.
4	From the Forum base directory of the installation you are switching to, activate the installation: <pre>cd &lt;second-Forum-base-directory&gt; ./avfbackground.sh start &lt;webserver username&gt;</pre>